

**(19) World Intellectual Property Organization
International Bureau**



A standard linear barcode is located at the bottom of the page, spanning most of the width. It is used for tracking and identification of the publication.

(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/053574 A3

(51) International Patent Classification⁷: A61F 2/06

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(21) International Application Number:

PCT/EP2004/013339

(22) International Filing Date:

24 November 2004 (24.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

Priority Data: 0327306.7 24 November 2003 (24.11.2003) GB

(71) Applicant (for all designated States except US): ANGIOMED GMBH & CO. MEDIZINTECHNIK KG [DE/DE]; Wachthausstrasse 6, 76227 Karlsruhe (DE)

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventor; and

(75) Inventor/Applicant (for US only): DORN, Jürgen [DE/DE]: Küstriner Weg 2, 68809 Neulussheim (DE)

(74) Agents: HOFFMANN EITLE et al.; Arabellastrasse 4,
81925 München (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AI, AM

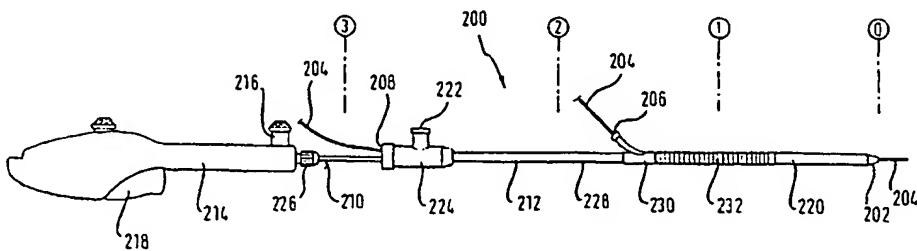
Published:

— with international search report

(88) Date of publication of the international search report:
9 February 2006

(54) Title: CATHETER DEVICE

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(57) Abstract: A catheter device having a shaft that extends from a proximal end to a distal end to carry on its distal end a self-expanding implant for intraluminal advance on a guidewire and delivery of the implant to a stenting site by proximal withdrawal of a sheath that lies radially outside the implant in the catheter, the catheter including a first shaft element to pull the sheath proximally and a second shaft element to push the implant distally to prevent the implant moving proximally with the sheath when the sheath is pulled proximally, wherein i) the shaft defines a flushing lumen ii) the shaft defines a proximal guidewire exit port that is distal of the proximal end of the shaft, for rapid exchange of the catheter with respect to the guidewire iii) the first shaft element is a pull wire iv) the second shaft element is a pusher tube.